H2575-8

Reported Fire Losses In The Petroleum Industry For 1985

Statistics Department

OCTOBER 1986

American
Petroleum
Institute

REPORTED FIRE LOSSES IN

THE PETROLEUM INDUSTRY - 1984

REVISED

The experience record of 76 companies reporting to the 54th annual fire loss survey to the American Petroleum Institute indicates a ratio of fire losses to current replacement value in 1984 of 8.1 cents per $100. A current replacement value of $254,613,021,000 was reported for structures, equipment, contents and oil stocks in 1984.

Fire losses of $207,156,319 were reported for the year. The number of fires reported for 1984 totaled 372.

TABLE 1

REVISED

CURRENT REPLACEMENT VALUES, FIRE LOSSES, AND FIRE-LOSS RATIOS, BY CLASSES OF PROPERTY FOR 1984

Classes of Property	Current Replacement Value $	Fire Loss $	Fire Loss Ratio $/$100
Exploration, Prod. & Drilling	98,166,270,000	5,660,921	0.006
Gas Processing	5,722,474,000	21,292,665	0.372
Exp.Prod.Drill. & Gas Not Sep[1]	27,127,887,000	922,000	0.003
Subtotal[2]	131,016,631,000	27,875,586	0.021
Offshore Portion	12,950,269,000	573,000	0.004
Petrochemicals	16,866,049,000	8,040,647	0.048
Refining	56,533,004,000	164,977,186	0.292
Marketing Wholesale	10,850,452,000	754,000	0.007
Marketing Retail	6,324,796,000	858,000	0.014
Marketing Subtotal[3]	17,175,248,000	1,612,000	0.009
Pipeline	26,754,820,000	3,736,900	0.014
All Others	6,267,269,000	914,000	0.015
All Properties	254,613,021,000	207,156,319	0.081

[1]Expl., Prod., Drilling & Gas unable to be separated into Expl., Prod. & Drilling or Gas Processing functions
[2]Total of Expl., Prod., Drilling (Separated & Not Separated), and Gas Processing
[3]Total of all Marketing functions

NOTES: The reporting of fires for 1984 was restricted to those resulting in losses of $2,500 or more.

The Offshore Portion is not included in the totals.

REPORTED FIRE LOSSES IN

THE PETROLEUM INDUSTRY - 1985

The experience record of 74 companies reporting to the 55th annual fire loss survey to the American Petroleum Institute indicates a ratio of fire losses to current replacement value in 1985 of 5.8 cents per $100. A current replacement value of $193,837,537,000 was reported for structures, equipment, contents and oil stocks in 1985.

Fire losses of $112,918,605 were reported for the year. The number of fires reported for 1985 totaled 314.

TABLE 1

CURRENT REPLACEMENT VALUES,
FIRE LOSSES, AND FIRE-LOSS RATIOS,
BY CLASSES OF PROPERTY FOR 1985

Classes of Property	Current Replacement Value $	Fire Loss $	Fire Loss Ratio $/$100
Exploration, Prod. & Drilling	100,242,319,000	10,447,800	0.010
Gas Processing	5,193,300,000	18,797,200	0.362
Exp,Prod,Drill, & Gas Not Sep[1]	0	0	0.00
Subtotal[2]	105,435,619,000	29,245,000	0.028
Offshore Portion	16,093,000,000	779,600	0.005
Petrochemicals	10,310,500,000	506,600	0.005
Refining	41,408,503,000	39,223,505	0.095
Marketing Wholesale	8,402,400,000	75,000	0.001
Marketing Retail	3,926,060,000	518,600	0.013
Marketing Subtotal[3]	12,328,460,000	593,600	0.005
Pipeline	18,867,048,000	1,058,000	0.006
All Others	5,487,407,000	42,291,900	0.771
All Properties	193,837,537,000	112,918,605	0.058

[1]Expl., Prod., Drilling & Gas unable to be separated into Expl., Prod. & Drilling or Gas Processing functions
[2]Total of Expl., Prod., Drilling (Separated & Not Separated), and Gas Processing
[3]Total of all Marketing functions

NOTES: The reporting of fires for 1985 was restricted to those resulting in losses of $2,500 or more.

The Offshore Portion is not included in the totals.

A list of the companies participating in the survey for 1985 appears on page 4.

TABLE 2

NUMBER OF FIRES REPORTED FOR 1985

Classes of Property	Year	Originating on Oil Company Properties: Confined to Property	Originating on Oil Company Properties: Spread to Other Property	Originated Outside But Spread to Oil-Company Property	No. $2.5K to $100K Loss	No. $100K to $1M Loss	No. over $1M Loss	Total Number of Fires
Exploration, Prod. & Drilling	1984	68	0	2	61	8	1	70
	1985	107	0	1	98	9	1	108
Gas Processing	1984	28	0	0	22	5	1	28
	1985	19	0	0	14	3	2	19
Exp,Prod,Drill, & Gas Not Sep[1]	1984	25	0	0	23	2	0	25
	1985	0	0	0	0	0	0	0
Subtotal[2]	1984	121	0	2	106	15	2	123
	1985	126	0	1	112	12	3	127
Offshore Portion	1984	13	0	0	11	2	0	13
	1985	6	0	0	4	2	0	6
Petrochemicals	1984	33	0	0	27	5	1	33
	1985	20	0	0	19	1	0	20
Refining	1984	142	1	1	94	39	11	144
	1985	104	0	0	65	32	7	104
Marketing Wholesale	1984	26	0	0	24	2	0	26
	1985	2	0	1	3	0	0	3
Marketing Retail	1984	22	0	0	20	2	0	22
	1985	32	0	0	32	0	0	32
Mark. Sub.[3]	1984	48	0	0	44	4	0	48
	1985	2	0	1	3	0	0	3
Pipeline	1984	9	2	3	11	2	1	14
	1985	15	0	0	11	4	0	15
All Others	1984	10	0	0	7	3	0	10
	1985	13	0	0	8	4	1	13
All Properties	1984	363	3	6	289	68	15	372
	1985	312	0	2	250	53	11	314

[1]Expl., Prod., Drilling & Gas unable to be separated into Expl., Prod. & Drilling or Gas Processing functions
[2]Total of Expl., Prod., Drilling (Separated & Not Separated), and Gas Proccessing
[3]Total of all Marketing functions

NOTE: The reporting of fires for 1985 was restricted to those resulting in losses of $2,500 or more.

The Offshore Portion is not included in the totals.

TANK FIRE EXPERIENCE IN 1985

11 companies responded to a questionnaire on fires originating in tanks, resulting in losses of $2,500 or more per fire. Reports on such fires in 1985 are summarized in Table 3. A total of 34 fires in this category were reported for 1985. These fires involved 38 tanks.

Of the tanks affected in 1985, 28 stored crude oil.

By type of tank involved in fires, 25 had cone roofs, and 6 were of the dome roof type.

Of a total of 38 tanks involved, 28 were located on producing properties, 4 at refineries, 5 in pipeline operations, and 1 at bulk plants and terminals.

TABLE 3

TANK FIRE EXPERIENCE IN 1985 and 1984

Fires Originating in Tanks Resulting in Losses of $2,500 or More

Number of Tanks Involved in Fires

Structural Type of Tank

	Floating Roof																			
	Pantograph Seal		Tube Seal		Internal		Total		Cone Roof		Dome Roof		Sphere & Spheroid		Horozontal		Other Types		Total	
By Class of Product:	1985	1984	1985	1984	1985	1984	1985	1984	1985	1984	1985	1984	1985	1984	1985	1984	1985	1984	1985	1984
Crude Oil	2	0	1	0	0	1	3	1	22	13	3	7	0	0	0	0	0	2	28	23
Products:																				
Under 100 F Flash	1	2	1	3	0	2	2	7	0	6	1	4	0	0	0	0	0	0	3	17
100-200 F Flash	0	3	0	0	0	0	0	3	3	4	2	0	0	0	0	0	1	0	6	7
Over 200 F Flash	0	0	1	0	0	0	1	0	0	2	0	0	0	0	0	0	0	1	1	3
LNG/LPG	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	3
Total	3	5	3	3	0	3	6	11	25	28	6	11	0	0	0	0	1	3	38	53
By Location:																				
Producing Properties	0	0	0	0	0	0	0	0	24	13	4	11	0	0	0	0	0	2	28	26
Pipeline Operations	2	0	0	0	0	1	2	1	0	0	2	0	0	0	0	0	1	0	5	1
Refineries	1	5	2	3	0	2	3	10	1	13	0	0	0	0	0	0	0	0	4	23
Bulk Plants & Term.	0	0	1	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1	1
Other Locations	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	2
Total	3	5	3	3	0	3	6	11	25	28	6	11	0	0	0	0	1	3	38	53

Total Number of Fires Involving Tanks (regardless of number of tanks involved).....	34	30

REPORTED FIRE LOSSES IN THE PETROLEUM INDUSTRY

COMPANIES PARTICIPATING IN THE 1985 SURVEY

Alabama-Tennessee Natural Gas Company
Amoco Corporation
Anchor Gasoline Corporation
Asamera Oil (U.S.) Inc.
Ashland Oil, Inc.
Bath Petroleum Storage, Inc.
BP North America Petroleum Inc.
Buckeye Pipe Line Company
Calcasieu Refining Company
Celeron Oil & Gas Company
Champlin Petroleum Company
Chevron Corporation
Cibro Petroleum Products, Inc.
Cities Service Oil & Gas Corporation
Clearfield Energy
COC Corp., D/B/A Coastal Oil Company
Colonial Pipeline Company
Conoco Inc.
Cook Inlet Pipe Line Company
Cross Oil & Refining Company
Daylight Engineering
E. E. Fogelson
El Paso Products Company
Exxon Chemical Americas
Exxon Company, U.S.A.
Fina Oil & Chemical Company
Flying J Petroleum Inc.
Hewit & Dougherty
Hunt Oil Company
Husky/RMT Properties Inc.
Hydrocarbon Transportation Inc.
K. N. Energy, Inc.
Kaneb Pipe Line Company
Kerr-McGee Refining Corporation
Lakehead Pipe Line Company, Inc.
Laurel Pipe Line Company
Lion Oil Company
Mapco Petroleum Inc.
Meenan Oil Company, Inc.
Mitchell Energy & Development Corp.
Mobil Oil Corporation
Mobil Research & Development Corp.
Monsanto Oil Company
Murphy Oil U.S.A., Inc.
Northern Gas Products Company
Pacific Refining Company
Parade Company, The
Pennzoil Company
Peoples Natural Gas Company, The
Petrolane Lomita Gasoline Company
Plantation Pipe Line Company
Portal Pipe Line Company
Portland Pipe Line Corporation
Producers gas Equities, Inc.
Public Service Company of Colorado
Sonat Inc.
Somerset Refinery Inc., The
South Hampton Refining Company
Southern Pacific Pipe Lines Inc.
Sun Company, Inc.
Tenneco Oil Company
Tensas Processing Corporation
Texaco Inc.
Texas Eastern Transmission Corporation
Texas Gas Transmission Corporation
Thriftway Company, Inc.
True Oil Company
UPG Falco
Union Gas System, Inc.
Unocal
United Refining Company
Western Gas Processors, Ltd.
Williams Pipe Line Company
Wyco Pipe Line Company

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